

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529040

Luminaire Tested: **GALN-SA4A-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12162 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

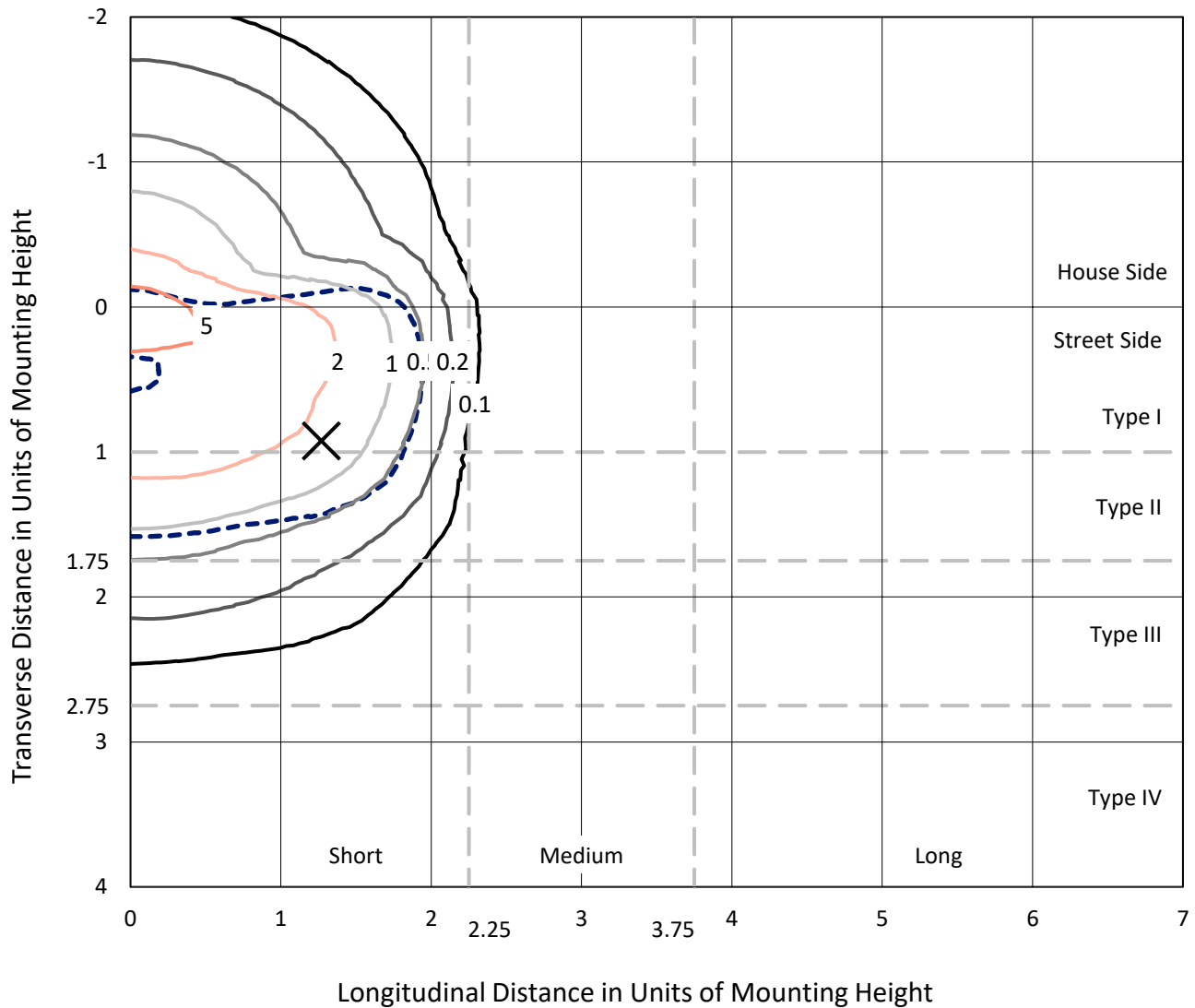


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Iso-Footcandle Lines of Horizontal Illumination

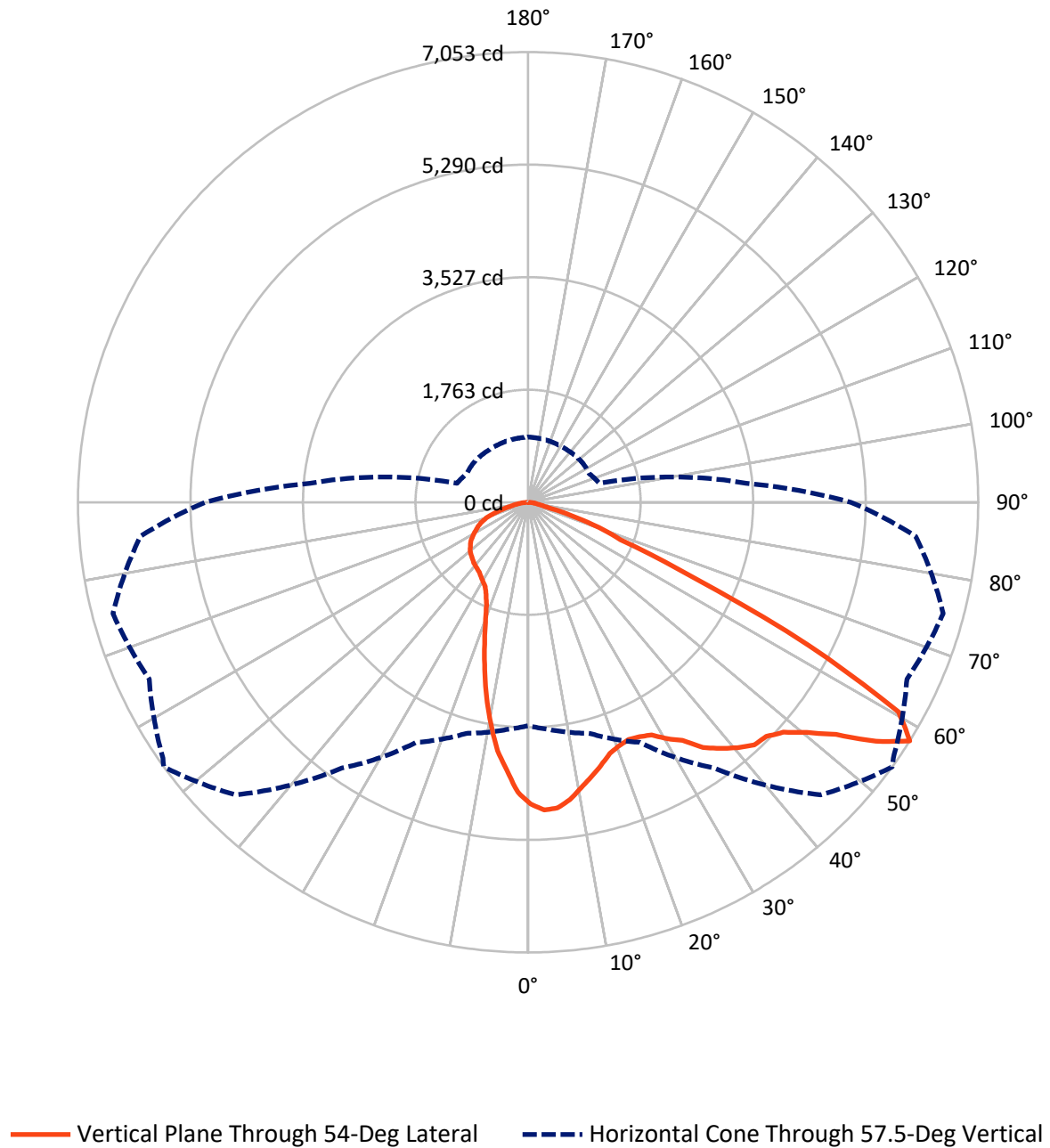
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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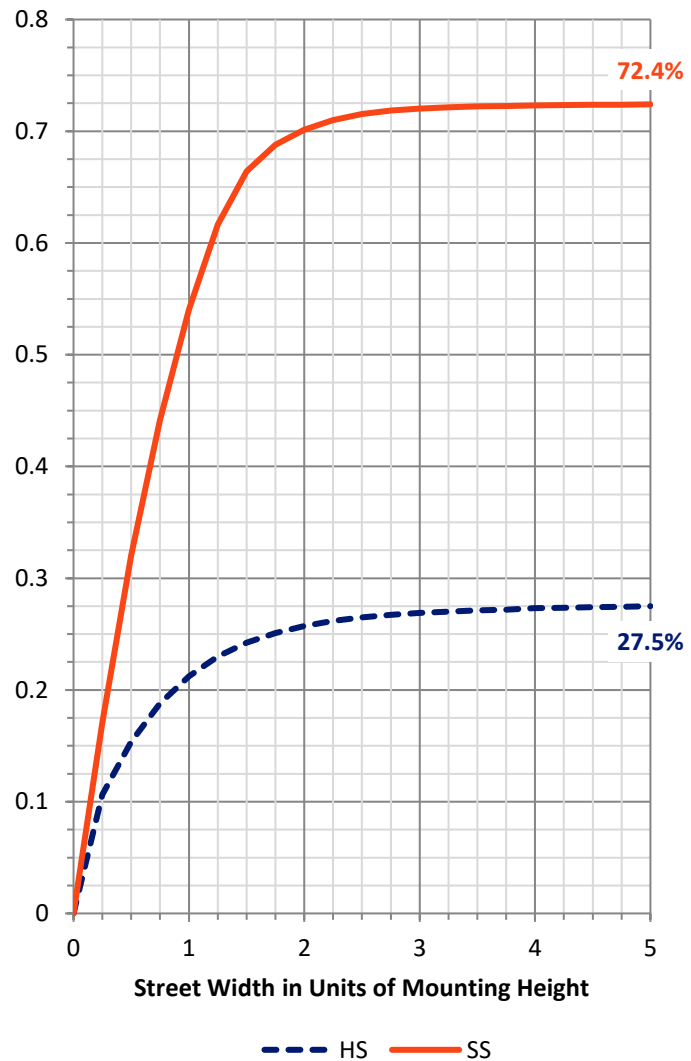
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3364.7	0.0	3364.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8797.3	0.0	8797.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	12162.0	0.0	12162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	3.4
10°-20°	943.9	7.8
20°-30°	1326.2	10.9
30°-40°	1854.1	15.2
40°-50°	2510.1	20.6
50°-60°	3057.4	25.1
60°-70°	1592.4	13.1
70°-80°	408.0	3.4
80°-90°	62.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12162.0	100.0
0°-180°	12162.0	100.0

Coefficient of Utilization



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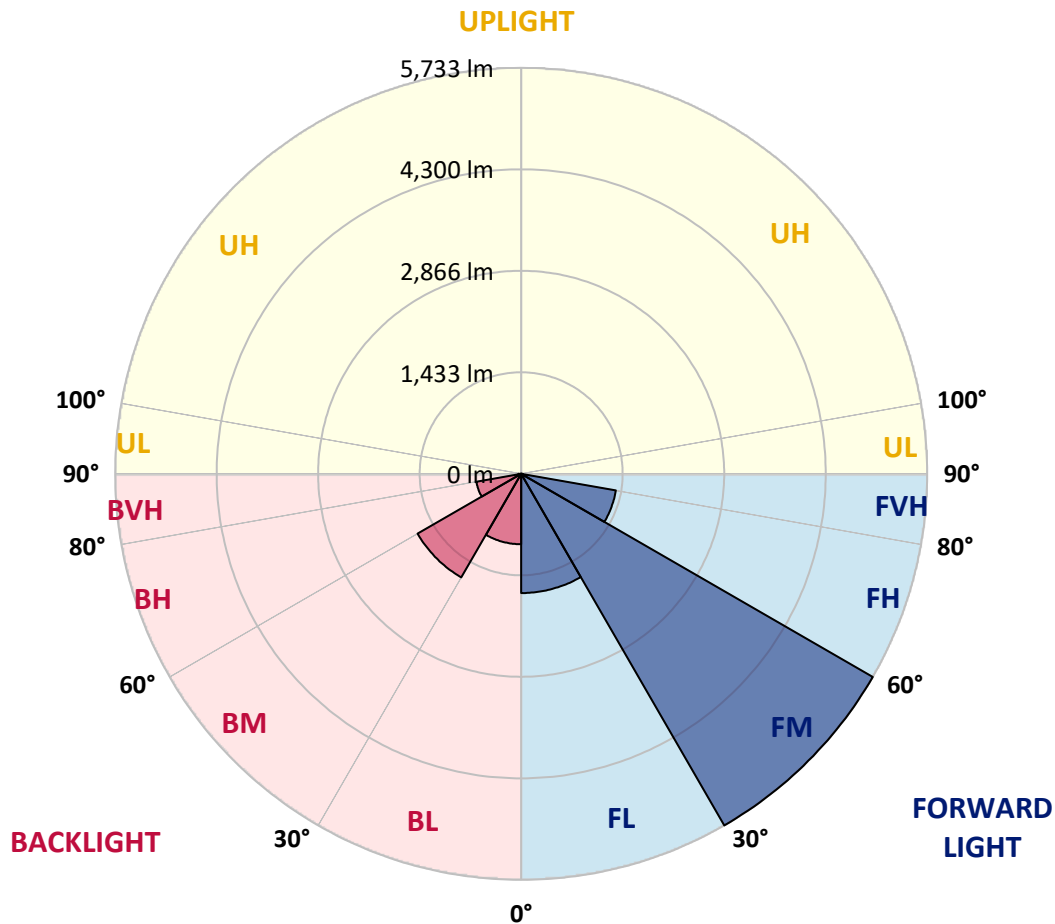
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1683.4	13.8			
FM	(30°-60°)	5732.8	47.1			
FH	(60°-80°)	1357.6	11.2			G1/1800
FVH	(80°-90°)	23.5	0.2			G1/100
BL	(0°-30°)	994.4	8.2	B2/1000		
BM	(30°-60°)	1688.7	13.9	B2/2500		
BH	(60°-80°)	642.8	5.3	B2/1000		G2/1000
BVH	(80°-90°)	38.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2
2.5°	4861.7	4842.9	4846.0	4871.0	4839.8	4827.3	4827.3	4766.3	4771.0	4728.8	4717.9
5°	4749.1	4705.3	4735.0	4772.6	4778.8	4791.3	4811.6	4796.0	4752.2	4706.9	4633.4
7.5°	4455.2	4494.3	4505.3	4531.8	4588.1	4639.7	4703.8	4660.0	4658.4	4613.1	4569.3
10°	4197.3	4173.8	4233.2	4272.3	4366.1	4452.1	4550.6	4545.9	4569.3	4517.8	4442.7
12.5°	3940.9	3922.2	3950.3	4039.4	4170.7	4295.8	4413.0	4369.2	4494.3	4484.9	4323.9
15°	3668.9	3683.0	3723.6	3806.5	3978.4	4128.5	4277.0	4278.6	4389.6	4427.1	4211.4
17.5°	3478.2	3462.6	3514.2	3637.7	3790.9	3970.6	4139.5	4173.8	4344.2	4366.1	4177.0
20°	3335.9	3357.8	3425.1	3487.6	3664.2	3881.5	4072.2	4084.7	4334.9	4394.3	4122.3
22.5°	3301.6	3289.1	3310.9	3412.5	3557.9	3794.0	4036.3	4083.2	4333.3	4384.9	4019.1
25°	3265.6	3306.2	3304.7	3406.3	3512.6	3723.6	4066.0	4117.6	4416.1	4433.3	4033.2
27.5°	3346.9	3342.2	3386.0	3393.8	3525.1	3742.4	4128.5	4167.6	4553.7	4539.6	4044.1
30°	3428.2	3404.7	3431.3	3523.5	3584.5	3850.3	4300.5	4297.3	4731.9	4722.5	4078.5
32.5°	3528.2	3517.3	3534.5	3615.8	3718.9	3994.1	4445.8	4538.1	4913.3	4972.7	4197.3
35°	3547.0	3592.3	3633.0	3742.4	3889.3	4227.0	4719.4	4796.0	5122.7	5308.8	4424.0
37.5°	3665.8	3683.0	3778.3	3972.2	4106.6	4538.1	4892.9	4941.4	5313.4	5524.5	4663.1
40°	3792.4	3812.7	3956.6	4159.8	4344.2	4741.3	5055.5	5071.1	5374.4	5690.2	4819.5
42.5°	3964.4	3983.1	4125.4	4380.2	4627.2	4914.8	5199.3	5216.5	5369.7	5880.9	5068.0
45°	4142.6	4187.9	4355.2	4644.4	4866.4	5118.0	5232.2	5302.5	5413.5	6051.3	5269.7
47.5°	4392.7	4434.9	4572.5	4855.4	5114.9	5296.2	5383.8	5452.6	5518.2	6199.8	5399.4
50°	4658.4	4666.3	4833.5	5089.9	5280.6	5497.9	5666.7	5690.2	5655.8	6371.8	5619.8
52.5°	4853.9	4878.9	5008.6	5258.7	5543.2	5810.6	6041.9	6066.9	5999.7	6435.8	5694.9
55°	4530.3	4516.2	4727.2	5060.2	5719.9	6276.4	6612.5	6631.3	6249.8	6634.4	5940.3
57.5°	3501.7	3568.9	3748.6	4150.4	5082.1	6482.7	7053.3	6986.1	6550.0	6734.4	6096.6
60°	2545.0	2529.3	2649.7	2918.6	3829.9	5587.0	6668.8	6737.6	6304.5	6070.1	5027.4
62.5°	2072.9	2051.0	2060.3	2069.7	2471.5	3708.0	4936.7	4935.1	4855.4	4363.0	3390.7
65°	1657.0	1708.6	1713.3	1783.7	1835.2	2215.1	2860.7	3013.9	2624.7	2152.6	1561.7
67.5°	1249.0	1230.3	1292.8	1542.9	1639.8	1599.2	1561.7	1578.9	1122.4	809.8	762.9
70°	736.3	728.5	803.5	1075.5	1350.6	1270.9	1177.1	1178.7	770.7	565.9	630.0
72.5°	403.3	401.8	417.4	545.6	767.5	797.3	706.6	728.5	459.6	458.0	492.4
75°	225.1	220.4	215.7	240.7	276.7	292.3	298.6	301.7	315.8	353.3	367.4
77.5°	82.9	79.7	79.7	92.2	117.2	146.9	186.0	189.2	223.5	256.4	270.4
80°	28.1	31.3	42.2	57.8	78.2	104.7	126.6	129.7	157.9	179.8	184.5
82.5°	17.2	18.8	28.1	40.6	56.3	73.5	93.8	95.4	117.2	131.3	137.6
85°	7.8	9.4	15.6	25.0	36.0	48.5	50.0	50.0	48.5	50.0	46.9
87.5°	0.0	0.0	3.1	3.1	3.1	4.7	6.3	4.7	7.8	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2	4727.2
2.5°	4685.0	4667.8	4614.7	4567.8	4553.7	4491.2	4399.0	4409.9	4342.7	4373.9	4341.1
5°	4620.9	4563.1	4427.1	4369.2	4217.6	4148.8	4101.9	3984.7	3930.0	3919.0	3872.1
7.5°	4456.8	4420.8	4250.4	4094.1	3933.1	3795.5	3618.9	3498.5	3412.5	3389.1	3320.3
10°	4327.0	4247.3	4011.3	3773.7	3543.9	3304.7	3074.9	2895.1	2807.6	2706.0	2671.6
12.5°	4198.9	4078.5	3759.6	3454.8	3157.7	2856.0	2577.8	2358.9	2168.2	2122.9	2107.2
15°	4119.1	3909.7	3534.5	3167.1	2745.0	2351.1	2072.9	1929.0	1811.8	1763.3	1797.7
17.5°	4014.4	3770.5	3318.8	2829.5	2365.2	2002.5	1769.6	1680.5	1638.3	1643.0	1628.9
20°	3883.1	3639.2	3035.8	2523.1	2026.0	1736.8	1603.9	1571.1	1577.3	1588.2	1583.6
22.5°	3789.3	3479.8	2831.0	2210.4	1750.8	1589.8	1535.1	1511.7	1532.0	1541.4	1533.5
25°	3717.4	3343.8	2582.5	1933.7	1591.4	1507.0	1481.9	1480.4	1511.7	1524.2	1516.3
27.5°	3651.7	3217.1	2335.5	1722.7	1485.1	1442.9	1435.1	1453.8	1474.1	1486.6	1497.6
30°	3612.6	3120.2	2104.1	1546.0	1431.9	1411.6	1397.5	1414.7	1425.7	1438.2	1431.9
32.5°	3650.2	3051.4	1880.6	1446.0	1388.2	1367.8	1386.6	1375.6	1394.4	1405.4	1388.2
35°	3767.4	2990.5	1721.1	1392.8	1338.1	1345.9	1349.1	1344.4	1352.2	1342.8	1363.1
37.5°	3883.1	2968.6	1574.2	1347.5	1314.7	1314.7	1311.6	1302.2	1317.8	1314.7	1324.1
40°	4030.0	2982.7	1449.1	1299.1	1292.8	1289.7	1277.2	1275.6	1269.3	1270.9	1274.0
42.5°	4158.2	3013.9	1377.2	1267.8	1272.5	1278.7	1255.3	1236.5	1244.3	1228.7	1228.7
45°	4294.2	3042.1	1313.1	1245.9	1241.2	1239.6	1220.9	1209.9	1203.7	1205.3	1219.3
47.5°	4508.4	3082.7	1264.7	1216.2	1219.3	1195.9	1191.2	1177.1	1183.4	1192.8	1194.3
50°	4660.0	3168.7	1227.1	1181.8	1192.8	1177.1	1149.0	1142.7	1142.7	1158.4	1155.2
52.5°	4766.3	3289.1	1191.2	1144.3	1149.0	1136.5	1127.1	1113.0	1103.6	1125.5	1136.5
55°	5091.5	3489.1	1181.8	1113.0	1111.5	1099.0	1081.8	1067.7	1063.0	1066.1	1088.0
57.5°	5060.2	3426.6	1152.1	1058.3	1055.2	1038.0	1020.8	1016.1	1014.5	1017.7	1023.9
60°	4108.2	2530.9	1028.6	995.8	991.1	988.0	970.8	952.0	942.6	952.0	944.2
62.5°	2718.5	1694.5	906.7	920.7	923.9	916.1	887.9	869.2	872.3	883.2	866.0
65°	1335.0	995.8	822.3	859.8	862.9	841.0	814.4	792.6	781.6	791.0	783.2
67.5°	762.9	761.3	753.5	792.6	791.0	769.1	726.9	708.1	689.4	692.5	687.8
70°	647.2	659.7	675.3	698.8	697.2	672.2	622.2	608.1	581.5	578.4	570.6
72.5°	509.6	531.5	565.9	583.1	569.0	537.8	504.9	481.5	458.0	444.0	448.6
75°	378.3	409.6	428.3	439.3	417.4	400.2	373.6	345.5	317.3	304.8	300.1
77.5°	275.1	284.5	301.7	309.5	295.5	278.3	262.6	234.5	207.9	190.7	186.0
80°	192.3	198.5	211.0	211.0	211.0	203.2	182.9	154.8	137.6	121.9	118.8
82.5°	134.4	140.7	153.2	146.9	145.4	136.0	123.5	101.6	82.9	71.9	68.8
85°	46.9	51.6	62.5	75.0	79.7	78.2	70.3	56.3	43.8	36.0	32.8
87.5°	10.9	10.9	12.5	10.9	10.9	12.5	10.9	10.9	10.9	7.8	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)